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WGU C949 Data Structures and Algorithms I Exam Guide (New 2023/ 2024 Update) Questions and Verified Answers| 100% Correct

Q:UESTION
_A is a "doubled-ended queue"

Answer:
deque

Q:UESTION
_List

Answer:
ADT that has elements of the same type so that the elements can be retrieved based on index or position

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Q:UESTION
_(high + low)/2

Answer:
mid-values calculation for binary search. toCeil()

Q:UESTION
_What is the effect on the object regarding garbage collection?
Computing obj = new Computing(); obj = null

Answer:
It is automatically available for garbage collection

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Q:UESTION

_mutable

Answer:

open to or capable of change, fickle

Q:UESTION

_immutable

Answer:

(adj.) not subject to change, constant

Q:UESTION

_unique and immutable

Answer:

Characteristics of keys in associative dictionary data type

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Q:UESTION

_DictName[key].remove(value)

Answer:

method used to take a value out of a dictionary

Q:UESTION

_Java.io.FileInputStream

Answer:

Java method used to read bytes from standard file

Q:UESTION

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_Add(int index, Object x)

Answer:
Command that inserts object x at position index in a list.

Q:UESTION

_Quick sort

Answer:
Values are "pivoted" in to the correct order. Sort function:
>Avg: O(N log(N))
>Worst: O(N²)

Q:UESTION

_Bubble sort

Answer:
Values are swapped to make the largest value float to the top. Sort function:
>Avg: O(N²)
>Worst: O(N²)

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Q:UESTION

_Bucket sort

Answer:
Values are distributed into sets. Sort function:
>Best: O(N+K)
>Avg: O(N+K)
>Worst: O(N²)
>Space: O(NK)

Q:UESTION

_what type of sort is this?
for i from 0 to N -1 if a[i] > a[i+1] swap(a[i], a[i +1] end for

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